



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Mathematics Department

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## Undergraduate Programme in Mathematics

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## MODULE HANDBOOK

Module name	Undergraduate Thesis I (Literature Study)
Module level, if applicable	Bachelor
Code, if applicable	MMM-4097
Subtitle, if applicable	-
Courses, if applicable	
Semester(s) in which the module is taught	7 <sup>th</sup> (seventh) or 8 <sup>th</sup> (eighth)
Person responsible for the module	Head of the Study Programme
Lecturer(s)	Supervisor(s)
Language	Bahasa Indonesia or English
Relation to curriculum	Compulsary course in the fourth year (7 <sup>th</sup> or 8 <sup>th</sup> semester) Bachelor Degree
Type of teaching, contact hours	100 minutes consultation and 410 minutes structured activities per week.
Workload	Total workload is 136 hours per semester, which consists of 100 minutes consultation per week, 410 minutes individual study per week, in total is 16 weeks per semester
Credit points	3
Requirements according to the examination regulations	There is no specific exam. The student has to present and write a report of the result.
Recommended prerequisites	Students who take the Undergraduate Thesis I have to fulfill the following requirements: <ol style="list-style-type: none"> <li>1. The CGPA of all courses taken has been greater than or equal to 2.00.</li> <li>2. Have taken at least 120 Credits (without grade E and percentage of credits with grade D is at most 25%).</li> <li>3. Have taken/are taking courses supporting the topic of the Undergraduate Thesis. Students who are going to take or taking Undergraduate Thesis with topic in Applied Mathematics are required to take at least one directed elective course of Applied Mathematics (marked by ♥) that fits to the topic of the Undergraduate Thesis: Dynamical System, Introduction to Optimization Theory, and Introduction to System Theory. The minimum grades of those courses are C.</li> <li>4. Include Undergraduate Thesis in Student study load (KRS) and register it to the Secretariat of UP-Math no later than one week after the KRS submission.</li> </ol>
Module objectives/intended learning outcomes	Upon successful completion, students will be able to: <p>CO1. conduct independent study of a particular topic,</p> <p>CO2. utilize mathematical power that has been studied in previous courses,</p> <p>CO3. analyze, and provide solution from mathematical point of view.</p>
Content	Topic is appointed by supervisor(s) or student.
Study and examination requirements and forms of examination	The students have to submit a report to their supervisor(s). The final mark will be decided by considering some criteria: <ul style="list-style-type: none"> <li>• the ability of student in mastering the material, including the logic,</li> <li>• communication skill,</li> <li>• language,</li> <li>• ethics and attitude.</li> </ul> <p>The minimal grade for the Undergraduate Thesis I is C. Assessment form is attached.</p>
Media employed	White Board, paper, Laptop/Computer

Reading List	Books or journals related to the topics.
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### PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
<b>CO 1</b>		v	v	v (for certain topics in Mathematics Computation track or in Applied Mathematics track)	v (for certain topics in Mathematics Computation track or in Applied Mathematics track)	v	v	v	v
<b>CO 2</b>		v	v	v (for certain topics in Mathematics Computation track or in Applied Mathematics track)	v (for certain topics in Mathematics Computation track or in Applied Mathematics track)	v	v	v	v
<b>CO 3</b>		v	v	v (for certain topics in Mathematics Computation track or in Applied Mathematics track)	v (for certain topics in Mathematics Computation track or in Applied Mathematics track)	v	v	v	v



**UNIVERSITAS GADJAH MADA**  
**FACULTY OF MATHEMATICS AND NATURAL SCIENCES**  
**DEPARTMENT OF MATHEMATICS**

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**FORMULIR PENILAIAN/ *FORM OF ASSESMENT***  
**TUGAS AKHIR STUDI LITERATUR/ *UNDERGRADUATE THESIS I***  
**(MMS-4096): 3 SKS/ *3 Credits***

Yang bertanda tangan di bawah ini menerangkan bahwa mahasiswa/ *The undersigned below states that the student with*

Nama/ *Name* : .....

NIM/ *Student ID* : .....

Program Studi/ *Study Programme* : .....

Telah menyelesaikan Tugas Akhir Studi Literatur (MMS - 4096/ 3 SKS)/ *Has finished Undergraduate Thesis I (Literature Study)*

Dengan Topik/ *with topic*: .....  
.....

dan mendapat nilai/ *and gets grade*: .....

Yogyakarta,.....

Dosen Pembimbing Tugas Akhir Studi Literatur  
*Supervisor*

(.....)